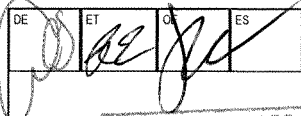




Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry Information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an

RECEIVED

JUL 22 2011

COGCC

Complete the Attachment Checklist

1. OGCC Operator Number: 95960	4. Contact Name: Dee Findlay	OP OGCC		
2. Name of Operator: WEXPRO COMPANY				
3. Address: P.O. BOX 458	Phone: 307 352-7554			
City: ROCK SPRINGS State: WY Zip: 82902	Fax: 307 352-7575			
5. API Number 05- 081-07468-00	OGCC Facility ID Number 414020	Survey Plat	X	X
6. Well/Facility Name: BW MUSSER	7. Well/Facility Number 31	Directional Survey	X	X
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NE NE 4-11N-97W	6pm	Surface Eqpm Diagram		
9. County: MOFFAT	10. Field Name: Powder Wash	Technical Info Page	X	X
11. Federal, Indian or State Lease Number: COD038749B		Other	X	X

General Notice

PA GC 097671A

☒ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:

389'

FNL/FSL

FNL

610'

FEL/FWL

FEL

Change of Surface Footage to Exterior Section Lines:

348'

FNL

607'

FEL

Change of Bottomhole Footage from Exterior Section Lines:

567'

FNL

771'

FEL

Change of Bottomhole Footage to Exterior Section Lines:

932'

FNL

766'

FEL

attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

NE NE 4-11N-97W

6pm

Latitude 40.94597 40.946994

Distance to nearest property line

11088'

Distance to nearest bldg, public rd, utility or RR

250'

Longitude -108.28923 108.289806

Distance to nearest lease line

520'

Is location in a High Density Area (rule 603b)?

Yes/No No

Ground Elevation

6601'

Distance to nearest well same formation

1270'

Surface owner consultation d

11/02/10

GPS DATA:

Date of Measurement 06/13/11

PDOP Reading

2.00

Instrument Operator's Name Trevor Anderson

☐ CHANGE SPACING UNIT

Formation

Formation Code

Spacing order number

Unit Acreage

Unit configuration

☐ Remove from surface bo

Signed surface use agreement att

☐ CHANGE OF OPERATOR (prior to drilling):

Effective Date:

Plugging Bond:

☐ Blanket

☐ Individual

☐ CHANGE WELL NAME

NUMBER

From:

To:

Effective Date:

☐ ABANDONED LOCATION:

Was location ever built?

☐ Yes

☐ No

Is site ready for inspection?

☐ Yes

☐ No

Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS

Date well shut in or temporarily abandoned:

Has Production Equipment been removed from site?

☐ Yes

☐ No

MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing s

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries

Method used

Cementing tool setting/perf depth

Cement volume

Cement top

Cement bottom

Date

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.

Final reclamation will commence on approximately

☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☒ Notice of Intent

Approximate Start Date: 8/1/2011

☐ Report of Work Done

Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)

☐ Request to Vent or Flare

☐ E&P Waste Disposal

☒ Change Drilling Plans

☐ Repair Well

☐ Beneficial Reuse of E&P Waste

☐ Gross Interval Changed?

☐ Rule 502 variance requested

☐ Status Update/Change of Remediation Plans

☐ Casing/Cementing Program Change

☒ Other:

for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete

Signed: W.T. Davey, JR

Date: 7-18-11

Email: Tammy.Fredrickson@Questar.com

Print Name: W.T. Davey, JR

Title: Drilling Manager

COGCC Approved:

Title: NWA Engineer

Date: 10/11/11

CONDITIONS OF APPROVAL, IF ANY:



TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	95960	API Number:	05-081-07468-00
2. Name of Operatc	Wexpro Company	OGCC Facility ID #	414020
3. Well/Facility Name:	BW MUSSER	Well/Facility Number:	31
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NE NE 4-11N-97W		

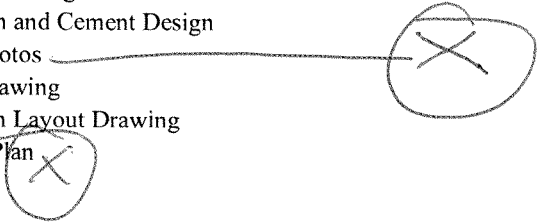
This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Due to Rig Skid Packages, Wexpro Company requests approval to slightly change the SHL for the above mentioned well. The new SHL will be: 348 FNL, 607 FEL, NENE, Sec. 4, T11N, R97W. The BHL will be 932 FNL 766 FEL NENE, Sec 4, T11N, R97W. Wexpro Company intends to drill deeper into the Lance formation to 9407' MD. 9 5/8" surface casing will be J55. Please see revised attached drilling plan. This location has been constructed and there will not be any more new disturbance. Wexpro Company also requests a variance to Onshore Order #2 because surface casing depth is 1500' and high pressure is not expected, see details in drilling plan. Wexpro Company intends to use a Flex Hose between the BOP and Choke Manifold, see drilling plan for details.

Attached please find:

- 1. Revised Well Plat
- 2. Revised Directional Drilling Plan
- 3. Revised Drilling Plan and Cement Design
- 4. Revised Location Photos
- 5. Revised Location Drawing
- 6. Revised Construction Layout Drawing
- 7. Revised Multi-well Plan



**DRILLING PLAN
WEXPRO COMPANY
MUSSESSER WELL NO. 31
REVISED 7/6/2011
MOFFAT COUNTY, COLORADO**

1. SURFACE FORMATION, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS:

		MD	TVD
Wasatch	-	Surface	Surface
A-4-G	-	4,403'	4,360' - gas - secondary objective
Fort Union	-	5,204'	5,149' - gas - major objective
Allen 8 A	-	6,039'	5,980' - gas - major objective
Allen 8 B	-	6,095'	6,037' - gas - major objective
Allen 8 E	-	6,280'	6,221' - gas - major objective
Allen 8 H	-	6,477'	6,418' - gas - major objective
Allen 11	-	6,874'	6,815' - gas - major objective
Allen 11 A	-	7,063'	7,005' - gas - major objective
4600	-	7,518'	7,460' - gas - major objective
Allen 10 B	-	7,832'	7,773' - gas - major objective
Allen 10 C	-	7,906'	7,848' - gas - major objective
Allen 6 G	-	7,975'	7,916' - gas - major objective
Allen 6 H	-	8,604'	8,545' - gas - major objective
Allen 6 K	-	8,777'	8,718' - gas - major objective
Lance	-	9,057'	8,998'
Total Depth	-	9,407'	9,348'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.

2. PRESSURE CONTROL EQUIPMENT: (see attached diagram) Operator's minimum specifications for pressure control equipment require an 11-inch 3000 psi double gate hydraulically operated blowout preventer and an 11-inch 3000 psi annular preventer. BOP equipment will be tested to its rated working pressure or 70-percent of the internal yield of the surface casing. The annular preventer will be tested at 50-percent of its rated working pressure. NOTE: The surface casing will be pressure tested to a minimum of 1500 psi. BOP's will be checked daily as to mechanical operating condition and will be tested by rig equipment after each string of casing is run. All ram type preventers will have hand wheels which will be operative and accessible at the time the preventers are installed. Accumulator will include both electric and air power source (see attached diagram).

At this time Wexpro Company requests approval, if needed, to use "Flex Hose" between the BOP and Choke Manifold. The Flex Hose will have a minimum rating of 5,000 psi. Please see the attached specifications sheet for more details.

AUXILIARY EQUIPMENT:

- a) Manually operated kelly cock
- b) No floats at bit
- c) Monitoring of mud system will be visual
- d) Full opening floor valves in the full open position, capable of fitting all drill stem connections manually operated

3. CASING PROGRAM:

Size		Top	Bottom	Weight	Grade	Thread	Condition
Hole	Casing						
20"	16"	sfc	80'	Steel Conductor			New
12-1/4"	9-5/8"	sfc	1,500'	36	J55	LT&C	New
7-7/8"	4-1/2"	sfc'	9,407'	13.5	P110	LT&C	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9-5/8"	36 lb.	J55	LTC	2,020 psi	3,520 psi	453,000 lb.
4-1/2"	13.5 lb.	P110	LTC	10,670 psi	12,410 psi	338,000 lb.

The variance to Onshore #2 is requested because surface casing depth for this well is 1500' and high pressure is not expected.

A properly lubricated and maintained rotating head: A diverter bowl will be utilized in place of a rotating head. The diverter bowl will force the air and cutting returns to the reserve pit as it is used to drill the surface casing.

Blooiie line discharge will be 100 feet from the well bore and securely anchored: The blooiie line discharge for this operation will be located 50 to 70 feet from the wellhead.

Automatic ignitor or continuous pilot light on the blooiie line: A diffuser will be used rather than an automatic pilot/ignitor. Water is injected into the compressed air and eliminates the need for the pilot light and the need for dust suppression equipment.

Compressor located in the direction from the blooiie line is a minimum of 100' from the well bore: Truck mounted air compressors will be located within 50 feet on the opposite side

of the wellhead from the blooie line and equipped with a (1) emergency kill switch on the driller's console, (2) pressure relief valve on the compressor and (3) spark arrestors on the motors.

Area Fracture Gradient: 0.750 psi/foot

CEMENTING PROGRAMS: (See Attached Details)

9-5/8" Surface Casing: 301 cubic feet Poz G with 2% CaCl₂ and 1/4% cello flake (only if lost circulation is encountered).

4-1/2" Production Casing: 1.) Lead Slurry: 1265 cubic feet Light 50/50 Poz/G with retarder, reducer and fluid loss additive. Volume to be calculated from logs to bring cement from 4,200 ft to surface with 15% excess.
2.) Tail Slurry: 1368 cubic feet 35/65 Poz-G with retarder, reducer and fluid loss additive. Volume to be calculated from caliper logs to bring tail cement from TD to 4,200' with 15% excess.

4. MUD PROGRAM:

- 1) Surface hole drilled and cased with Rat-Hole rig.
- 2) Surface casing will be drilled out 10 feet and formation tested to 10.0 ppg mud equivalent.
- 3) Fresh water with gel and polymer sweeps as necessary. Mud weight of 10.0 ppg to be accomplished by 5,000 feet to total depth, if needed.
 - A. Mud weight 9.0 - 10.0 ppg
 - B. Viscosity 35 - 45 cp
 - C. PH 10
 - D. Water Loss 7-8
 - E. Type Fresh water and dispersed mud

Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at the wellsite.

No chrome constituent additives will be used in the mud system on Federal, State and Indian lands without prior BLM/State approval to ensure adequate protection of fresh water aquifers.

5. LOGGING:

DIL-SFL-GR: Total depth to surface casing
BHC-Sonic-GR: Total depth to surface casing



FDC-CNL-GR-PE-Cal: Total depth to surface casing
Cement/Borehole Profile Total depth to surface casing

TESTING: None.

CORING: None.

6. ABNORMAL PRESSURE AND TEMPERATURE: A BHT of 195⁰ F. Possible
depletion from 3,500' to TD.

7. ANTICIPATED STARTING DATE: Upon Approval

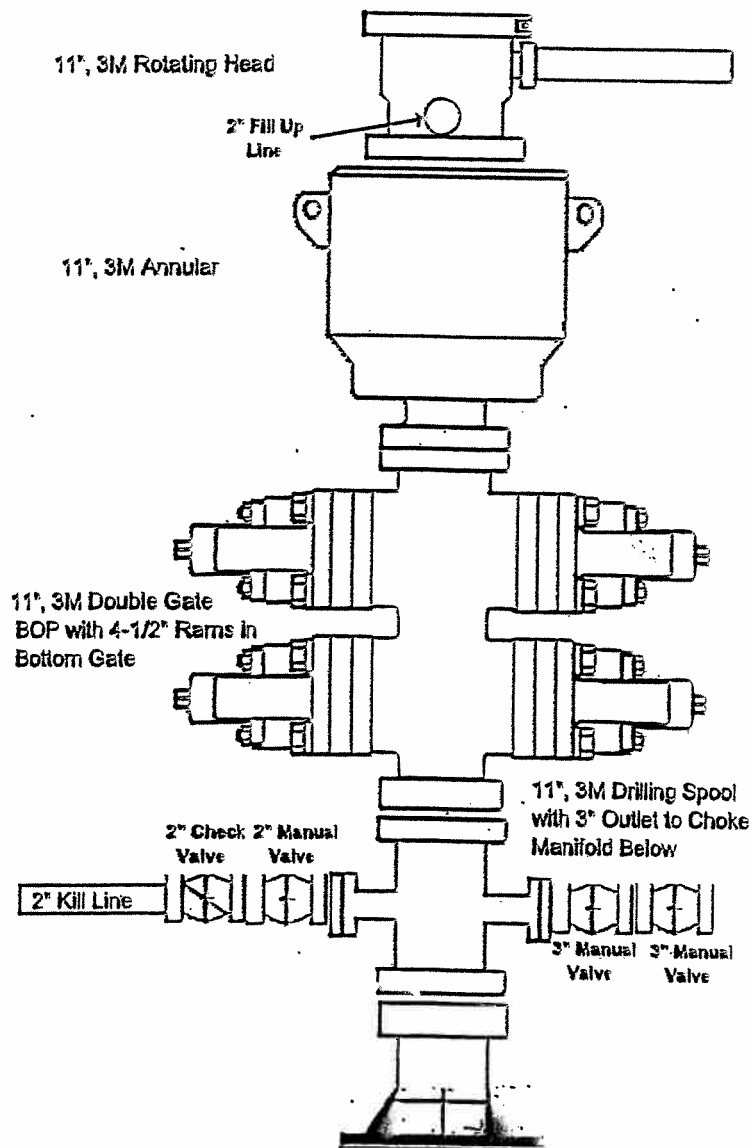
DURATION OF OPERATION: 20 days

MUSSER WELL NO. 31 : CEMENT CALCULATIONS

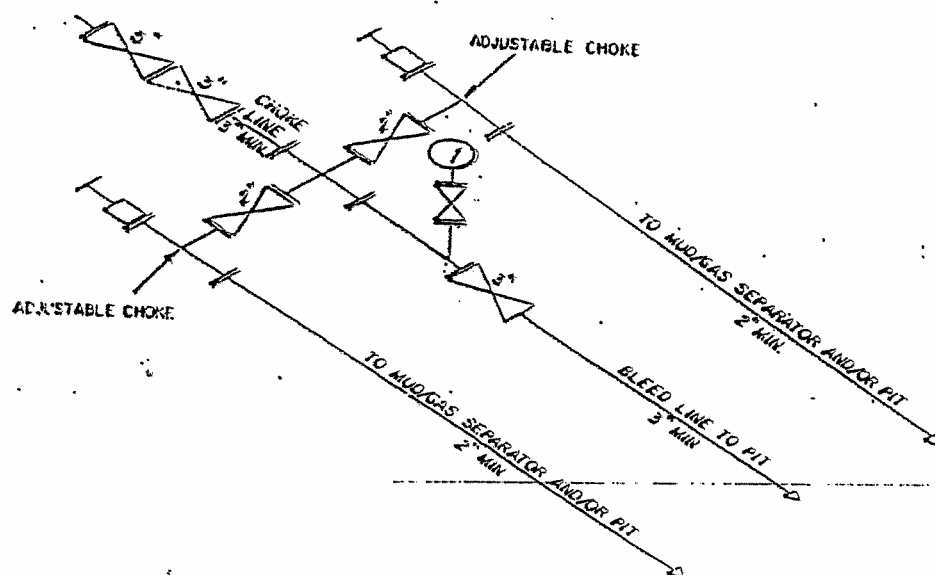
SURFACE CASING:									
CASING:	9.625 "	36#	J-55	0.4340 cu.ft./lin.ft	ID= 8.921				
ANNULUS:	12.250 "	x 9.625" Gauge Hole			0.3131 cu.ft./lin.ft				
CONDUCTOR	16.000 "	STEEL PIPE							
EXCESS:	100%								
CEMENT YIELD:	LEAD				2.65 cu.ft/sack	11.5 PPG			
	TAIL				1.26 cu.ft/sack	15.2 PPG			
CONDUCTOR DEPTH	80								
TOTAL DEPTH	1,500 Feet								
TOP OF TAIL	900 Feet								
TOP OF LEAD	0 Feet (Surface)								
LEAD SLURRY					CU.FT				
COND/CSG ANN	80	TO	0	0.8908	71.27				
ANN (OH)	900	TO	80	0.3131	256.77				
ANN EXCESS					100%	256.77			
					584.80	221 SACKS	584.8 CU.FT.		
TAIL SLURRY					CU.FT				
CSG SHOE (45')	1,500	TO	1,455	0.4340	19.53				
COND/CSG ANN	-	TO	-	0.8908	0.00				
ANN (OH)	1,500	TO	900	0.3131	187.88				
ANN EXCESS					100%	187.88			
					395.28	314 SACKS	395 CU.FT.		
					DISPLACEMENT	112.5 BBLS			

PRODUCTION CASING:									
CASING:	4.500 ", 13.5#, P-110				0.0838 cu.ft./lin.ft		ID= 3.92		
ANNULUS:	7.875 "(For Gauge Hole)				0.2278 cu.ft./lin.ft				
	8.921 " ID x 4-1/2" CASING ANNULUS				0.3236 cu.ft./lin.ft				
EXCESS:					15%				
CEMENT YIELD:	LEAD				2.63 cu.ft./sack		11.5 PPG		
	TAIL				1.49 cu.ft./sack		14.2 PPG		
TOTAL DEPTH					9,407 Feet				
TOP OF TAIL					4,200 Feet				
TOP OF LEAD	OPEN HOLE TOP				1,500 Feet				
	CASED HOLE TOP				SURFACE Feet				
LEAD SLURRY					CU.FT				
ANN	4,200	TO	1,500	0.2278	614.93	7-7/8" (For Gauge hole)			
	1,500	TO	0	0.3236	485.34	9-5/8" X 4-1/2" Casing Annulus			
ANN EXCESS					15%	165.04			
					1265.31	481 SACKS	1265 CU.FT.		
TAIL SLURRY					CU.FT				
CSG	9,407	TO	9,362	0.0838	3.77				
ANN	9,407	TO	4,200	0.2278	1185.91				
ANN EXCESS					15%	177.89			
					1367.57	918 SACKS	1368 CU.FT.		
					DISPLACEMENT	139.7 BBLs			

3,000 psi BOP Minimum Requirements



3M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY
46812 Federal Register / Vol. 53, No. 223 / Friday, November 18, 1988 / Rules and Regulations



Construction

Tube: Black, oil and abrasion resistant HNBR for H₂S service.

Reinforcement: Multiple plies of bias laid textile cord for extra strength and flexibility. Spirally wound, high tensile, multiple strand cables to provide unsurpassed ruggedness and reliability to withstand sudden high pressure.

Cover: Special flame resistant red Neoprene (CR) with optional stainless steel armor.

Fittings: Integral connection flanged or hubbed.

Temperature: -40°F to 212°F.

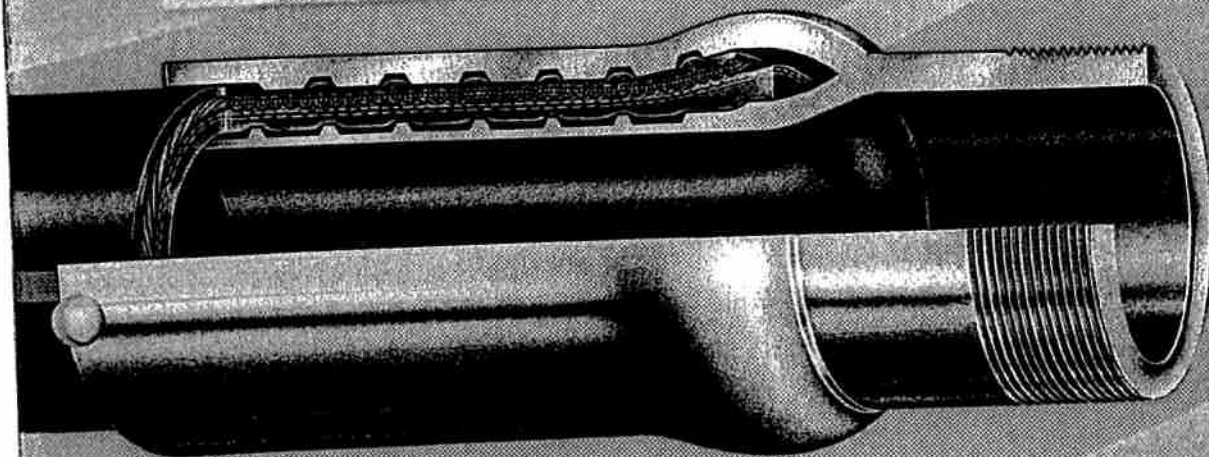
Branding: NRP Choke & Kill Hose. MADE IN USA.

Specifications

NRP Part Number	Hose ID (in)	Hose OD (in)	Rated WP (psi)	Test Pressure (psi)	Minimum Bend Radius	Weight per Foot (lbs)
5035-32	2.00	4.45	5,000	10,000	44	12.9
5035-40	2.50	4.60	5,000	10,000	48	13.9
5035-48	3.00	5.10	5,000	10,000	52	16.1
5040-32	2.00	4.68	10,000	15,000	48	22.4
5040-40	2.50	5.34	10,000	15,000	52	27.4
5040-48	3.00	5.84	10,000	15,000	56	28.8

Specifications

NRP Rotary Number	NRP Vibrator Number	Hose ID (in)	Hose OD (in)	Grade	Rated WP (psi)	Test Pressure (psi)	Minimum Bend Radius	Weight per Foot (lbs)	Weight of 2' Cplg (lbs)	Cplg Thread API (in)
5501-40	5502-40	2.50	4.45	C	4,000	8,000	36	12.9	54	3
5501-48	5502-48	3.00	4.95	C	4,000	8,000	48	14.9	74	4
5501-56	5502-56	3.50	5.45	C	4,000	8,000	54	16.6	94	4
5603-40	5604-40	2.50	4.60	D	5,000	10,000	36	13.6	54	3
5603-48	5604-48	3.00	5.10	D	5,000	10,000	48	15.5	74	4
5603-56	5604-56	3.50	5.75	D	5,000	10,000	54	18.6	94	4



WEXPRO COMPANY

**COLORADO (MOFFAT COUNTY)
SEC. 4 TWP 11N RGE. 97W 6th P.M.
B.W. MUSSER #31**

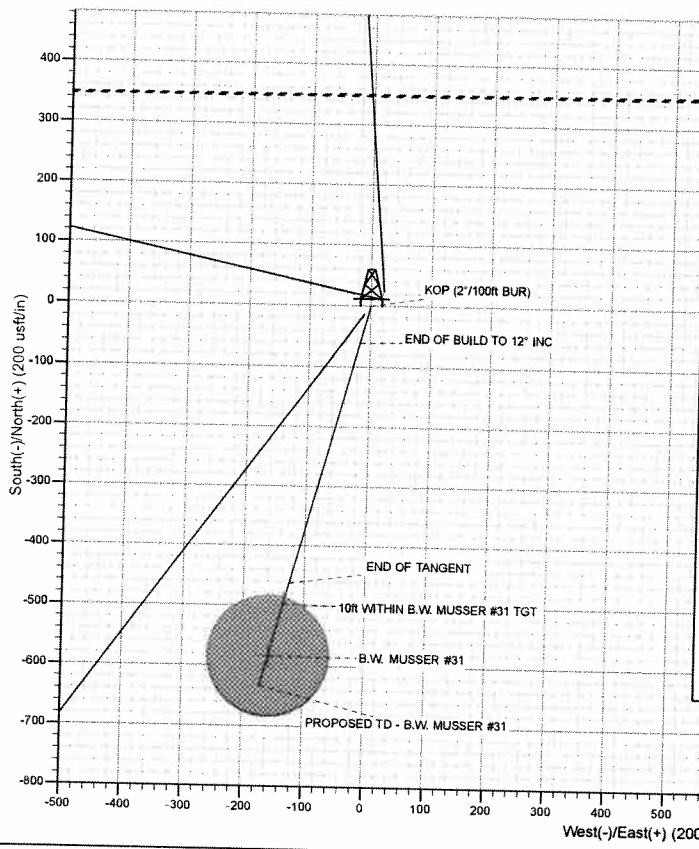
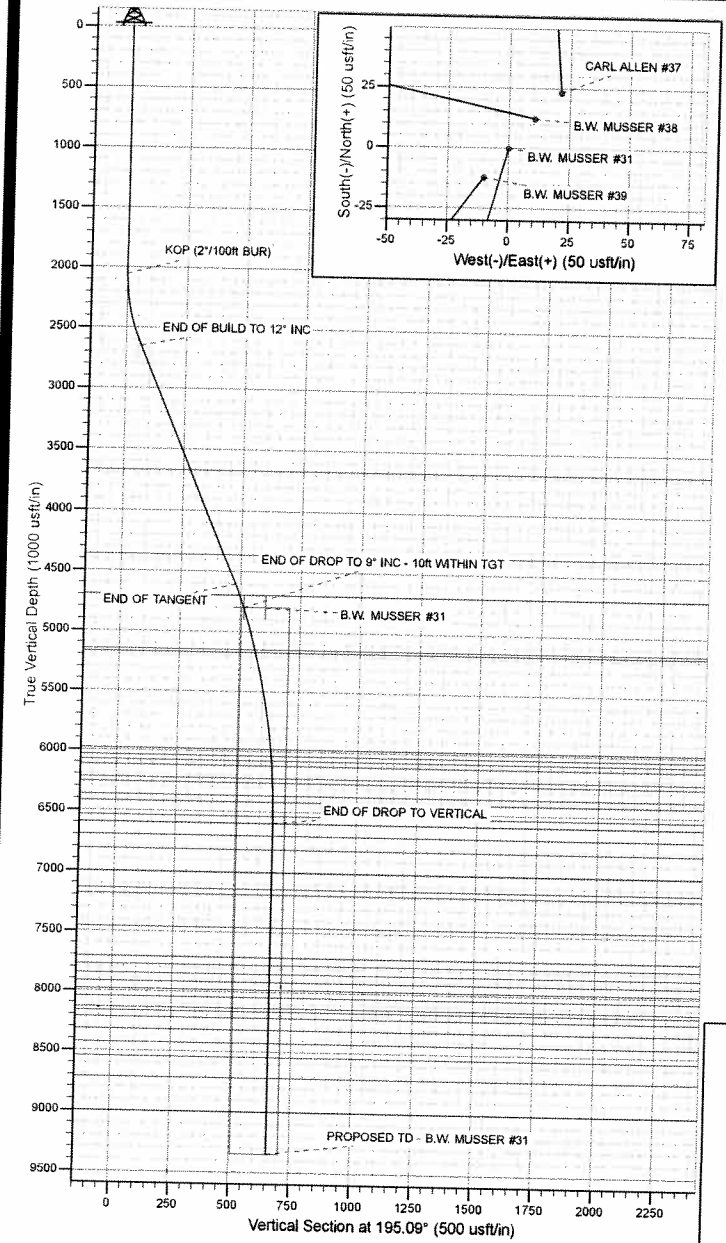
ORIGINAL WELLBORE

21 June, 2011

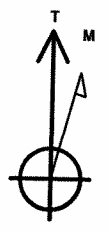
Plan: PROPOSAL #2



Project: COLORADO (MOFFAT COUNTY)
Site: SEC. 4 TWP 11N RGE. 97W 6th P.M.
Well: B.W. MUSSER #31
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2



FORMATION TOP DETAILS		
TVDPPath	MDPath	Formation
3669.0	3696.2	A-4-C SD
4360.0	4402.7	A-4-G SD
4696.0	4745.9	(BIG WATER SD)
5149.0	5204.0	FORT UNION FORMATION
5172.0	5227.2	U.F.U. SD 1A SD
5980.0	6038.6	L.F.U. ALLEN 8A
6037.0	6095.6	L.F.U. ALLEN 8B
6077.0	6135.7	L.F.U. ALLEN 8C
6118.0	6176.7	L.F.U. ALLEN 8D
6221.0	6279.8	L.F.U. ALLEN 8E
6260.0	6318.8	L.F.U. ALLEN 8E1
6366.0	6424.8	L.F.U. ALLEN 8G
6418.0	6476.9	L.F.U. ALLEN 8H
6535.0	6593.9	L.F.U. ALLEN 8A
6594.0	6652.9	L.F.U. ALLEN 8B
6698.0	6756.9	L.F.U. ALLEN 8C
6815.0	6873.9	L.F.U. ALLEN 11
7005.0	7063.9	L.F.U. ALLEN 11A
7141.0	7199.9	L.F.U. ALLEN 11B
7187.0	7245.9	L.F.U. ALLEN 11C
7460.0	7518.9	L.F.U. ALLEN 11C
7711.0	7769.9	L.F.U. ALLEN 11C
7773.0	7831.9	L.F.U. ALLEN 10A
7848.0	7906.9	L.F.U. ALLEN 10B
7916.0	7974.9	L.F.U. ALLEN 10C
7980.0	8038.9	L.F.U. ALLEN 6
8045.0	8103.9	L.F.U. ALLEN 6A
8134.0	8192.9	L.F.U. ALLEN 6B
8164.0	8222.9	L.F.U. ALLEN 6C
8218.0	8276.9	L.F.U. ALLEN 6D
8318.0	8376.9	L.F.U. ALLEN 6E
8426.0	8484.9	L.F.U. ALLEN 6F
8545.0	8603.9	L.F.U. ALLEN 6G
8718.0	8776.9	L.F.U. ALLEN 6H
8998.0	9056.9	L.F.U. ALLEN 6K
		LNCE



Azimuths to True North
Magnetic North: 10.75°
Magnetic Field
Strength: 53037.5snT
Dip Angle: 66.89°
Date: 12/12/2010
Model: IGRF2010

ANNOTATIONS							Annotation
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	
2052.0	2052.0	0.00	0.00	0.0	0.0	0.0	KOP (2' / 100ft BUR)
2647.8	2652.2	12.00	195.09	-60.5	-16.3	62.6	END OF BUILD TO 12" INC
4603.1	4651.2	12.00	195.09	-461.9	-124.5	478.4	END OF TANGENT
4800.0	4851.5	9.00	195.09	-497.1	-134.0	514.9	EOD TO 9" INC - 10ft WITHIN TGT
6592.6	6651.5	0.00	0.00	-633.4	-170.8	656.0	END OF DROP TO VERTICAL
9348.0	9406.9	0.00	0.00	-633.4	-170.8	656.0	PROPOSED TD - B.W. MUSSER #31

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #31
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6625.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6625.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #31	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Project	COLORADO (MOFFAT COUNTY)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	SEC. 4 TWP 11N RGE. 97W 6th P.M.		
Site Position:			
From:	Lat/Long	Northing:	1,600,528.61 usft
Position Uncertainty:	0.0 usft	Easting:	2,229,601.25 usft
		Slot Radius:	13-3/16"
		Latitude:	40° 56' 54.791 N
		Longitude:	108° 17' 21.001 W
		Grid Convergence:	-1.80 °

Well	B.W. MUSSER #31		
Well Position	+N/-S	16.0 usft	Northing:
	+E/-W	-19.1 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	40° 56' 54.949 N
		Longitude:	108° 17' 21.250 W
		Ground Level:	6,610.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	12/12/2010	(°)	(°)	(nT)
			10.75	66.89	53,037

Design	PROPOSAL #2		
Audit Notes:			

Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	4,800.0	0.0	0.0	195.09

Plan Sections											
MD	Inc	Azi	Vertical	SS	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
(usft)	(°)	(°)	Depth	(usft)	(usft)	(usft)	Rate	Rate	Rate	(°)	
							(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	-6,625.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,052.0	0.00	0.00	2,052.0	-4,573.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,652.2	12.00	195.09	2,647.8	-3,977.2	-60.5	-16.3	2.00	2.00	0.00	0.00	
4,651.2	12.00	195.09	4,603.1	-2,021.9	-461.9	-124.5	0.00	0.00	0.00	195.09	
4,851.5	9.00	195.09	4,800.0	-1,825.0	-497.1	-134.0	1.50	-1.50	0.00	0.00	
6,651.5	0.00	0.00	6,592.6	-32.4	-633.4	-170.8	0.50	-0.50	0.00	180.00	10ft WITHIN B.W. A
9,406.9	0.00	0.00	9,348.0	2,723.0	-633.4	-170.8	0.00	0.00	0.00	180.00	
										0.00	

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #31
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6625.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6625.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #31	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	6,625.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	6,525.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	6,425.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	6,325.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	6,225.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	6,125.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	6,025.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	5,925.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	5,825.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	5,725.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	5,625.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	5,525.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	5,425.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	5,325.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	5,225.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	5,125.00	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	5,025.00	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	4,925.00	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	4,825.00	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	4,725.00	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	4,625.00	0.0	0.0	0.0	0.00	0.00	0.00
KOP (2°/100ft BUR)										
2,052.0	0.00	0.00	2,052.0	4,573.00	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.96	195.09	2,100.0	4,525.00	-0.4	-0.1	0.4	2.00	2.00	0.00
2,200.0	2.96	195.09	2,199.9	4,425.07	-3.7	-1.0	3.8	2.00	2.00	0.00
2,300.0	4.96	195.09	2,299.7	4,325.31	-10.4	-2.8	10.7	2.00	2.00	0.00
2,400.0	6.96	195.09	2,399.1	4,225.86	-20.4	-5.5	21.1	2.00	2.00	0.00
2,500.0	8.96	195.09	2,498.2	4,126.82	-33.8	-9.1	35.0	2.00	2.00	0.00
2,600.0	10.96	195.09	2,596.7	4,028.34	-50.5	-13.6	52.3	2.00	2.00	0.00
END OF BUILD TO 12° INC										
2,652.2	12.00	195.09	2,647.8	3,977.17	-60.5	-16.3	62.6	2.00	2.00	0.00
2,700.0	12.00	195.09	2,694.6	3,930.43	-70.1	-18.9	72.6	0.00	0.00	0.00
2,800.0	12.00	195.09	2,792.4	3,832.61	-90.2	-24.3	93.4	0.00	0.00	0.00
2,900.0	12.00	195.09	2,890.2	3,734.80	-110.2	-29.7	114.2	0.00	0.00	0.00
3,000.0	12.00	195.09	2,988.0	3,636.99	-130.3	-35.1	135.0	0.00	0.00	0.00
3,100.0	12.00	195.09	3,085.8	3,539.17	-150.4	-40.6	155.8	0.00	0.00	0.00
3,200.0	12.00	195.09	3,183.6	3,441.36	-170.5	-46.0	176.6	0.00	0.00	0.00
3,300.0	12.00	195.09	3,281.5	3,343.55	-190.6	-51.4	197.4	0.00	0.00	0.00
3,400.0	12.00	195.09	3,379.3	3,245.73	-210.7	-56.8	218.2	0.00	0.00	0.00
3,500.0	12.00	195.09	3,477.1	3,147.92	-230.7	-62.2	239.0	0.00	0.00	0.00
3,600.0	12.00	195.09	3,574.9	3,050.11	-250.8	-67.6	259.8	0.00	0.00	0.00
A-4-C SD										
3,696.2	12.00	195.09	3,669.0	2,956.00	-270.1	-72.8	279.8	0.00	0.00	0.00
3,700.0	12.00	195.09	3,672.7	2,952.29	-270.9	-73.0	280.6	0.00	0.00	0.00
3,800.0	12.00	195.09	3,770.5	2,854.48	-291.0	-78.5	301.4	0.00	0.00	0.00
3,900.0	12.00	195.09	3,868.3	2,756.67	-311.1	-83.9	322.2	0.00	0.00	0.00
4,000.0	12.00	195.09	3,966.1	2,658.85	-331.1	-89.3	343.0	0.00	0.00	0.00
4,100.0	12.00	195.09	4,064.0	2,561.04	-351.2	-94.7	363.8	0.00	0.00	0.00
4,200.0	12.00	195.09	4,161.8	2,463.23	-371.3	-100.1	384.6	0.00	0.00	0.00
4,300.0	12.00	195.09	4,259.6	2,365.41	-391.4	-105.5	405.4	0.00	0.00	0.00
4,400.0	12.00	195.09	4,357.4	2,267.60	-411.5	-110.9	426.2	0.00	0.00	0.00
A-4-G SD										
4,402.7	12.00	195.09	4,360.0	2,265.00	-412.0	-111.1	426.7	0.00	0.00	0.00
4,500.0	12.00	195.09	4,455.2	2,169.79	-431.5	-116.4	447.0	0.00	0.00	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #31
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6625.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6625.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #31	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	12.00	195.09	4,553.0	2,071.97	-451.6	-121.8	467.8	0.00	0.00	0.00
END OF TANGENT										
4,651.2	12.00	195.09	4,603.1	2,021.90	-461.9	-124.5	478.4	0.00	0.00	0.00
4,700.0	11.27	195.09	4,650.9	1,974.10	-471.4	-127.1	488.2	1.50	-1.50	0.00
(BIG WATER SD)										
4,745.9	10.58	195.09	4,696.0	1,929.00	-479.8	-129.4	497.0	1.50	-1.50	0.00
4,800.0	9.77	195.09	4,749.2	1,875.78	-489.0	-131.9	506.5	1.50	-1.50	0.00
END OF DROP TO 9° INC - 10ft WITHIN TGT										
4,851.5	9.00	195.09	4,800.0	1,825.00	-497.1	-134.0	514.9	1.50	-1.50	0.00
4,900.0	8.76	195.09	4,847.9	1,777.05	-504.4	-136.0	522.4	0.50	-0.50	0.00
5,000.0	8.26	195.09	4,946.8	1,678.15	-518.7	-139.8	537.2	0.50	-0.50	0.00
5,100.0	7.76	195.09	5,045.9	1,579.13	-532.1	-143.5	551.1	0.50	-0.50	0.00
5,200.0	7.26	195.09	5,145.0	1,479.99	-544.7	-146.9	564.2	0.50	-0.50	0.00
FORT UNION FORMATION										
5,204.0	7.24	195.09	5,149.0	1,476.00	-545.2	-147.0	564.7	0.50	-0.50	0.00
U.F.U. SD 1A SD										
5,227.2	7.12	195.09	5,172.0	1,453.00	-548.0	-147.8	567.6	0.50	-0.50	0.00
5,300.0	6.76	195.09	5,244.3	1,380.73	-556.5	-150.1	576.4	0.50	-0.50	0.00
5,400.0	6.26	195.09	5,343.6	1,281.38	-567.4	-153.0	587.7	0.50	-0.50	0.00
5,500.0	5.76	195.09	5,443.1	1,181.93	-577.6	-155.7	598.2	0.50	-0.50	0.00
5,600.0	5.26	195.09	5,542.6	1,082.39	-586.8	-158.2	607.8	0.50	-0.50	0.00
5,700.0	4.76	195.09	5,642.2	982.77	-595.2	-160.5	616.5	0.50	-0.50	0.00
5,800.0	4.26	195.09	5,741.9	883.08	-602.8	-162.5	624.4	0.50	-0.50	0.00
5,900.0	3.76	195.09	5,841.7	783.33	-609.6	-164.4	631.3	0.50	-0.50	0.00
6,000.0	3.26	195.09	5,941.5	683.51	-615.5	-166.0	637.5	0.50	-0.50	0.00
L.F.U. ALLEN 8A										
6,038.6	3.06	195.09	5,980.0	645.00	-617.5	-166.5	639.6	0.50	-0.50	0.00
L.F.U. ALLEN 8B										
6,095.6	2.78	195.09	6,037.0	588.00	-620.3	-167.3	642.5	0.50	-0.50	0.00
6,100.0	2.76	195.09	6,041.3	583.65	-620.6	-167.3	642.7	0.50	-0.50	0.00
L.F.U. ALLEN 8C										
6,135.7	2.58	195.09	6,077.0	548.00	-622.2	-167.8	644.4	0.50	-0.50	0.00
L.F.U. ALLEN 8D										
6,176.7	2.37	195.09	6,118.0	507.00	-623.9	-168.2	646.1	0.50	-0.50	0.00
6,200.0	2.26	195.09	6,141.3	483.75	-624.8	-168.5	647.1	0.50	-0.50	0.00
L.F.U. ALLEN 8E										
6,279.8	1.86	195.09	6,221.0	404.00	-627.5	-169.2	650.0	0.50	-0.50	0.00
6,300.0	1.76	195.09	6,241.2	383.81	-628.2	-169.4	650.6	0.50	-0.50	0.00
L.F.U. ALLEN 8E1										
6,318.8	1.66	195.09	6,260.0	365.00	-628.7	-169.5	651.2	0.50	-0.50	0.00
6,400.0	1.26	195.09	6,341.2	283.84	-630.7	-170.1	653.2	0.50	-0.50	0.00
L.F.U. ALLEN 8G										
6,424.8	1.13	195.09	6,366.0	259.00	-631.2	-170.2	653.7	0.50	-0.50	0.00
L.F.U. ALLEN 8H										
6,476.9	0.87	195.09	6,418.0	207.00	-632.1	-170.4	654.7	0.50	-0.50	0.00
6,500.0	0.76	195.09	6,441.1	183.86	-632.4	-170.5	655.0	0.50	-0.50	0.00
L.F.U. ALLEN 9A										
6,593.9	0.29	195.09	6,535.0	90.00	-633.2	-170.7	655.8	0.50	-0.50	0.00
6,600.0	0.26	195.09	6,541.1	83.86	-633.3	-170.7	655.9	0.50	-0.50	0.00
END OF DROP TO VERTICAL										
6,651.5	0.00	0.00	6,592.6	32.39	-633.4	-170.8	656.0	0.50	-0.50	0.00
L.F.U. ALLEN 9B										

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #31
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6625.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6625.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #31	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,652.9	0.00	0.00	6,594.0	31.00	-633.4	-170.8	656.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,641.1	-16.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 9C										
6,756.9	0.00	0.00	6,698.0	-73.00	-633.4	-170.8	656.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,741.1	-116.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 11										
6,873.9	0.00	0.00	6,815.0	-190.00	-633.4	-170.8	656.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,841.1	-216.14	-633.4	-170.8	656.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,941.1	-316.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 11A										
7,063.9	0.00	0.00	7,005.0	-380.00	-633.4	-170.8	656.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,041.1	-416.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 11B										
7,199.9	0.00	0.00	7,141.0	-516.00	-633.4	-170.8	656.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,141.1	-516.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 11C										
7,245.9	0.00	0.00	7,187.0	-562.00	-633.4	-170.8	656.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,241.1	-616.14	-633.4	-170.8	656.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,341.1	-716.14	-633.4	-170.8	656.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,441.1	-816.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. 4600										
7,518.9	0.00	0.00	7,460.0	-835.00	-633.4	-170.8	656.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,541.1	-916.14	-633.4	-170.8	656.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,641.1	-1,016.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 10A										
7,769.9	0.00	0.00	7,711.0	-1,086.00	-633.4	-170.8	656.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,741.1	-1,116.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 10B										
7,831.9	0.00	0.00	7,773.0	-1,148.00	-633.4	-170.8	656.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,841.1	-1,216.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 10C										
7,906.9	0.00	0.00	7,848.0	-1,223.00	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6										
7,974.9	0.00	0.00	7,916.0	-1,291.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,941.1	-1,316.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6A										
8,038.9	0.00	0.00	7,980.0	-1,355.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,041.1	-1,416.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6B										
8,103.9	0.00	0.00	8,045.0	-1,420.00	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6C										
8,192.9	0.00	0.00	8,134.0	-1,509.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,141.1	-1,516.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6D										
8,222.9	0.00	0.00	8,164.0	-1,539.00	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6E										
8,276.9	0.00	0.00	8,218.0	-1,593.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,241.1	-1,616.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6F										
8,376.9	0.00	0.00	8,318.0	-1,693.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,341.1	-1,716.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6G										

Planning Report

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Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6625.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6625.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #31	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,484.9	0.00	0.00	8,426.0	-1,801.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,441.1	-1,816.14	-633.4	-170.8	656.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,541.1	-1,916.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6H										
8,603.9	0.00	0.00	8,545.0	-1,920.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,641.1	-2,016.14	-633.4	-170.8	656.0	0.00	0.00	0.00
L.F.U. ALLEN 6K										
8,776.9	0.00	0.00	8,718.0	-2,093.00	-633.4	-170.8	656.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,741.1	-2,116.14	-633.4	-170.8	656.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,841.1	-2,216.14	-633.4	-170.8	656.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,941.1	-2,316.14	-633.4	-170.8	656.0	0.00	0.00	0.00
LNCE										
9,056.9	0.00	0.00	8,998.0	-2,373.00	-633.4	-170.8	656.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,041.1	-2,416.14	-633.4	-170.8	656.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,141.1	-2,516.14	-633.4	-170.8	656.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,241.1	-2,616.14	-633.4	-170.8	656.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,341.1	-2,716.14	-633.4	-170.8	656.0	0.00	0.00	0.00
PROPOSED TD - B.W. MUSSER #31										
9,406.9	0.00	0.00	9,348.0	-2,723.00	-633.4	-170.8	656.0	0.00	0.00	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #31
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6625.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6625.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #31	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,696.2	3,669.0	A-4-C SD			
4,402.7	4,360.0	A-4-G SD			
4,745.9	4,696.0	(BIG WATER SD)			
5,204.0	5,149.0	FORT UNION FORMATION			
5,227.2	5,172.0	U.F.U. SD 1A SD			
6,038.6	5,980.0	L.F.U. ALLEN 8A			
6,095.6	6,037.0	L.F.U. ALLEN 8B			
6,135.7	6,077.0	L.F.U. ALLEN 8C			
6,176.7	6,118.0	L.F.U. ALLEN 8D			
6,279.8	6,221.0	L.F.U. ALLEN 8E			
6,318.8	6,260.0	L.F.U. ALLEN 8E1			
6,424.8	6,366.0	L.F.U. ALLEN 8G			
6,476.9	6,418.0	L.F.U. ALLEN 8H			
6,593.9	6,535.0	L.F.U. ALLEN 9A			
6,652.9	6,594.0	L.F.U. ALLEN 9B			
6,756.9	6,698.0	L.F.U. ALLEN 9C			
6,873.9	6,815.0	L.F.U. ALLEN 11			
7,063.9	7,005.0	L.F.U. ALLEN 11A			
7,199.9	7,141.0	L.F.U. ALLEN 11B			
7,245.9	7,187.0	L.F.U. ALLEN 11C			
7,518.9	7,460.0	L.F.U. 4600			
7,769.9	7,711.0	L.F.U. ALLEN 10A			
7,831.9	7,773.0	L.F.U. ALLEN 10B			
7,906.9	7,848.0	L.F.U. ALLEN 10C			
7,974.9	7,916.0	L.F.U. ALLEN 6			
8,038.9	7,980.0	L.F.U. ALLEN 6A			
8,103.9	8,045.0	L.F.U. ALLEN 6B			
8,192.9	8,134.0	L.F.U. ALLEN 6C			
8,222.9	8,164.0	L.F.U. ALLEN 6D			
8,276.9	8,218.0	L.F.U. ALLEN 6E			
8,376.9	8,318.0	L.F.U. ALLEN 6F			
8,484.9	8,426.0	L.F.U. ALLEN 6G			
8,603.9	8,545.0	L.F.U. ALLEN 6H			
8,776.9	8,718.0	L.F.U. ALLEN 6K			
9,056.9	8,998.0	LNCE			

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,052.0	2,052.0	0.0	0.0	KOP (2"/100ft BUR)
2,652.2	2,647.8	-60.5	-16.3	END OF BUILD TO 12° INC
4,651.2	4,603.1	-461.9	-124.5	END OF TANGENT
4,851.5	4,800.0	-497.1	-134.0	END OF DROP TO 9° INC - 10ft WITHIN TGT
6,651.5	6,592.6	-633.4	-170.8	END OF DROP TO VERTICAL
9,406.9	9,348.0	-633.4	-170.8	PROPOSED TD - B.W. MUSSER #31

NAD 83 (SURFACE LOCATION)	
LATITUDE =	40°56'54.95" (40.948597)
LONGITUDE =	108°17'21.25" (108.289236)
NAD 27 (SURFACE LOCATION)	
LATITUDE =	40°56'55.08" (40.948633)
LONGITUDE =	108°17'18.91" (108.288586)

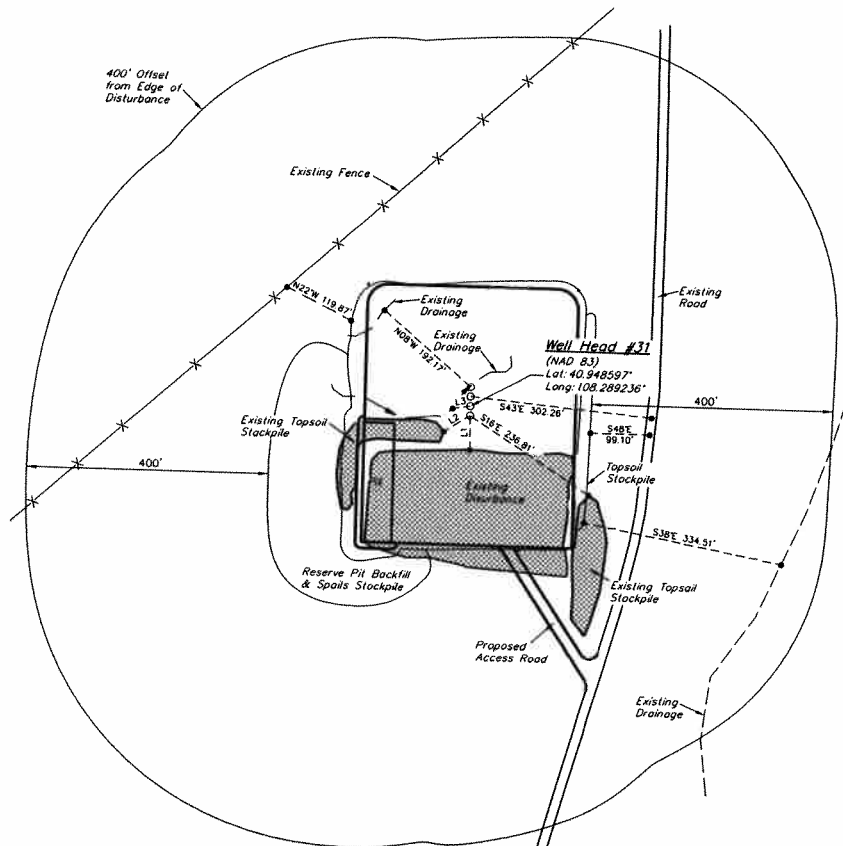
WEXPRO COMPANY

ADDENDUM TO LEGAL PLAT FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5



SCALE: 1" = 200'
DATE: 08-06-10
DRAWN BY: K.G.
REVISED: 03-08-11 S.L.
REVISED: 04-20-11 S.L.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S40°39'11"W	57.25'
L2	N81°02'54"W	51.15'
L3	N56°58'43"W	29.60'

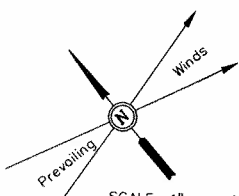
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

WEXPRO COMPANY

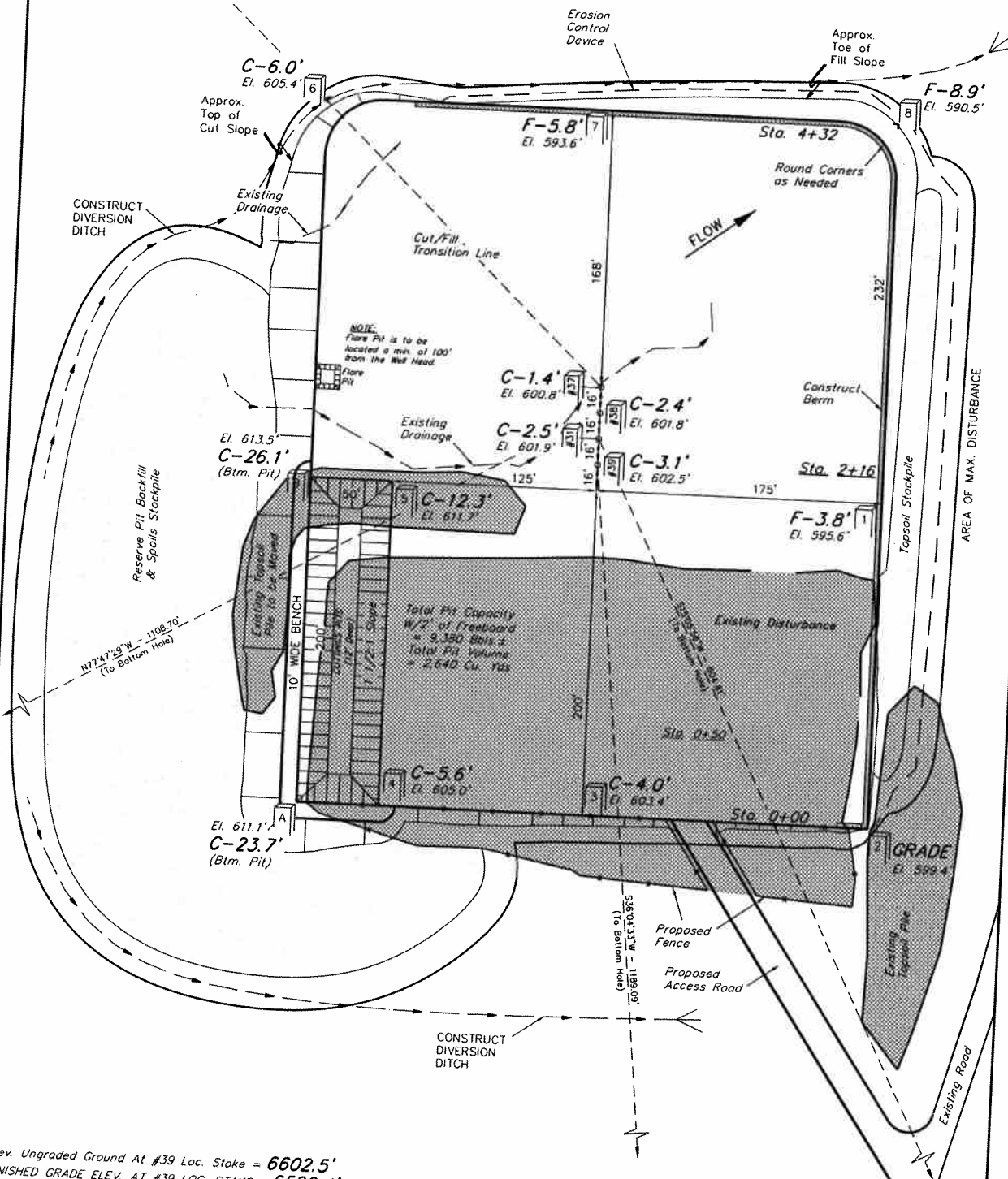
CONSTRUCTION LAYOUT FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5

FIGURE #1



SCALE: 1" = 60'
DATE: 08-06-10
DRAWN BY: K.G.
REVISED: 03-08-11 S.L.
REVISED: 04-20-11 S.L.
REVISED: 06-13-11 S.L.



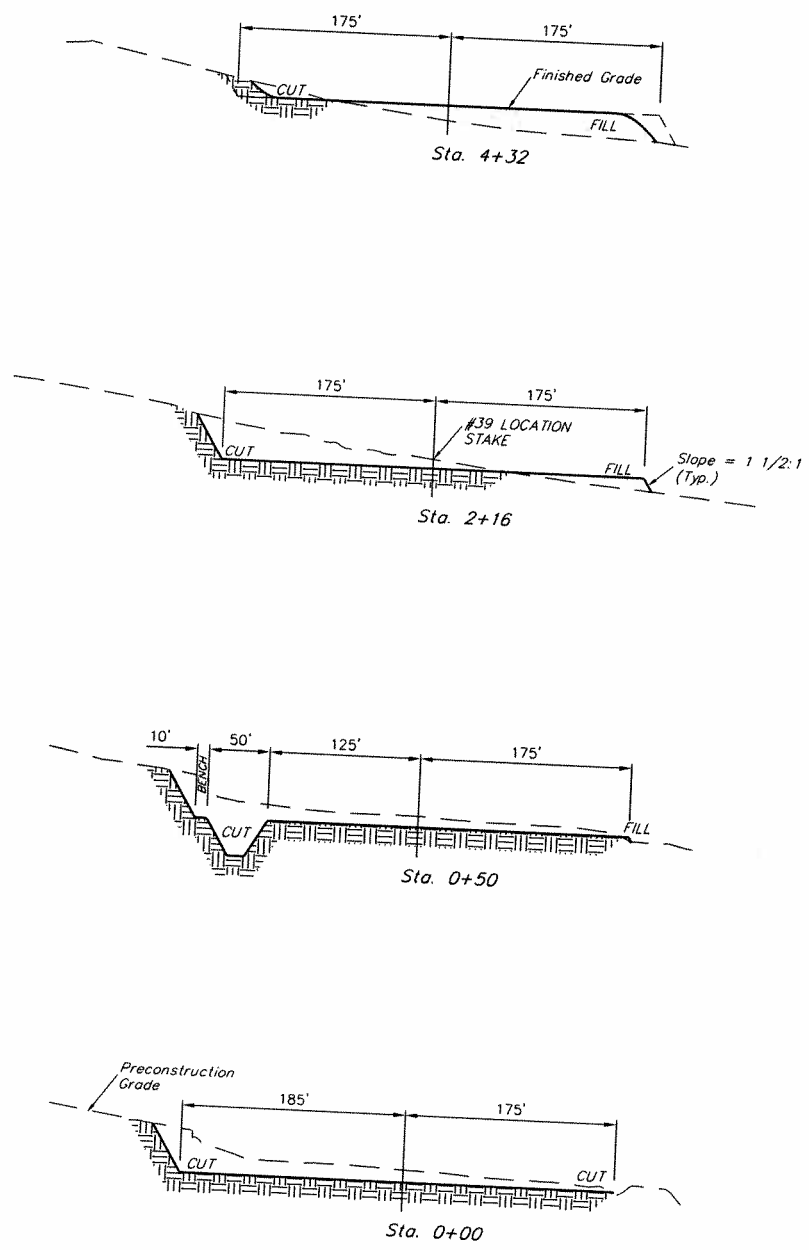
Elev. Ungraded Ground At #39 Loc. Stake = 6602.5'
FINISHED GRADE ELEV. AT #39 LOC. STAKE = 6599.4'

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X-Section
 Scale
 1" = 100'
 DATE: 08-06-10
 DRAWN BY: K.G.
 REVISED: 03-08-11 S.L.
 REVISED: 04-20-11 S.L.

WEXPRO COMPANY
 CONSTRUCTION LAYOUT CROSS SECTION FOR
 B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
 SECTION 4, T11N, R97W, 6th P.M.
 LOT 5

FIGURE #2



NOTE:
 Topsoil should not be
 Stripped Below Finished
 Grade on Substructure Area.

* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping (New Construction Only)	= 2,210 Cu. Yds.
Remaining Location	= 27,560 Cu. Yds.
TOTAL CUT	= 29,770 CU.YDS.
FILL	= 7,490 CU.YDS.

EXCESS MATERIAL	= 22,280 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,530 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 18,750 Cu. Yds.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	= ± 6.069 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.087 ACRES
PIPELINE DISTURBANCE	= ± 0.873 ACRES
TOTAL	= ± 7.029 ACRES

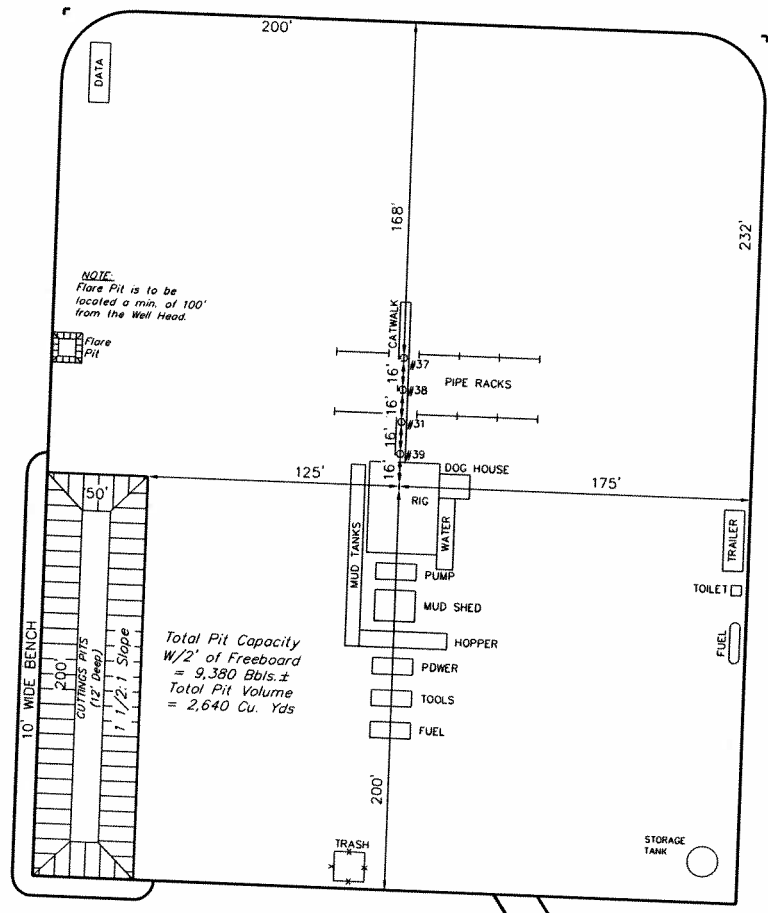
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SCALE: 1" = 60'
DATE: 08-06-10
DRAWN BY: K.G.
REVISED: 03-08-11 S.L.
REVISED: 04-20-11 S.L.

WEXPRO COMPANY
TYPICAL RIG LAYOUT FOR
B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5

FIGURE #3



Proposed Access Road

Existing Road

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WEXPRO COMPANY

LOCATION DRAWING FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5



FIGURE #4

DATE: 12-09-09
DRAWN BY: K.G.
REVISED: 05-04-10
REVISED: 08-06-10
REVISED: 03-08-11 S.L.
REVISED: 04-20-11 S.L.



SCALE

5/8" Rebar, Pile of
Stones, Replaced Rebar,
w/ 3/4" Rebar & 2"
Alum. Cap
Lat: 40.949556
Long: 108.287039

N89°53'35"E - 2642.90' (Meas.)

Set Marked Stone
Lat: 40.949542
Long: 108.296603

Lot 7

S83°37'46"W - 5742.35' (To Power Line)

S81°08'03"W - 5783.78' (To Water Well)

S77°54'08"W - 6167.63' (To Building)

MOUNTAIN FUEL SUPPLY CO.
INDUSTRIAL
PERMIT #35880-F-
DEPTH TO GW 812'

Lot 6

Proposed
Access Road

Existing
Road

Lot 5

BLM
Lands

County
Road #4

S112°29'50"W - 800.68'
(To County Rd. #4)

N87°16'27"E - 2.1 Miles
(To Property Line)

N00°05'44"W - 2618.14' (Meas.)

Set Marked Stone,
Pile of Stones,
Steel Post,
Lat: 40.942372
Long: 108.287022

4

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WEXPRO COMPANY

BOTTOM HOLE DRAWING FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.

LOT 5

33



SCALE

DATE: 03-09-10

DRAWN BY: K.G.

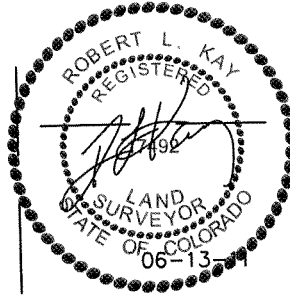
REVISED: 05-04-10

REVISED: 08-06-10

REVISED: 03-08-11 S.L.

REVISED: 04-20-11 S.L.

REVISED: 06-13-11 S.L.



E 1/4 Cor. Sec. 33
Set Marked Stone
Lat: 40.956792
Long: 108.287108

BOTTOM HOLE
CARL ALLEN #37

5/8" Rebar, Pile of
Stones, Replaced
Rebar, w/ 3/4" Rebar
& 2" Alum. Cap
Lat: 40.949556
Long: 108.287039

N89°53'35"E - 2642.90' (Meas.)

N00°24'54"W - 2637.04' (Meas.)

T12N
T11N

Set Marked Stone
Lat: 40.949542
Long: 108.296603

BOTTOM HOLE
B.W. MUSSER #38

Lot 7

Lot 6

Lot 5

BOTTOM HOLE
B.W. MUSSER #39

BOTTOM HOLE
B.W. MUSSER #31

N00°05'44"W - 2618.14' (Meas.)

Set Marked Stone,
Pile of Stones,
Steel Post,
Lat: 40.942372
Long: 108.287022

4

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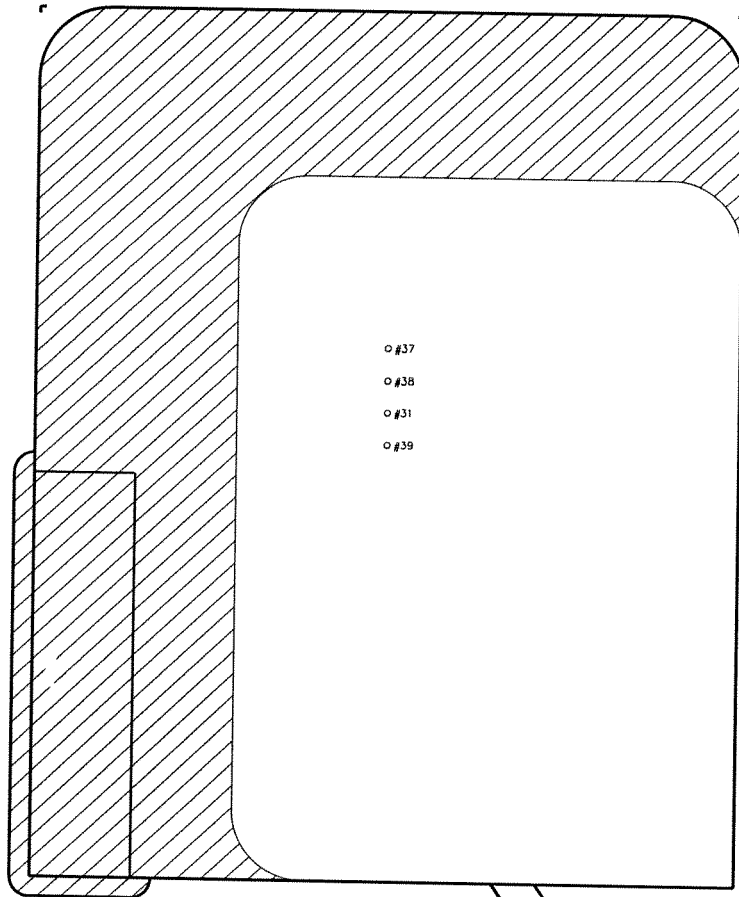
RECLAMATION DIAGRAM FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5

FIGURE #6



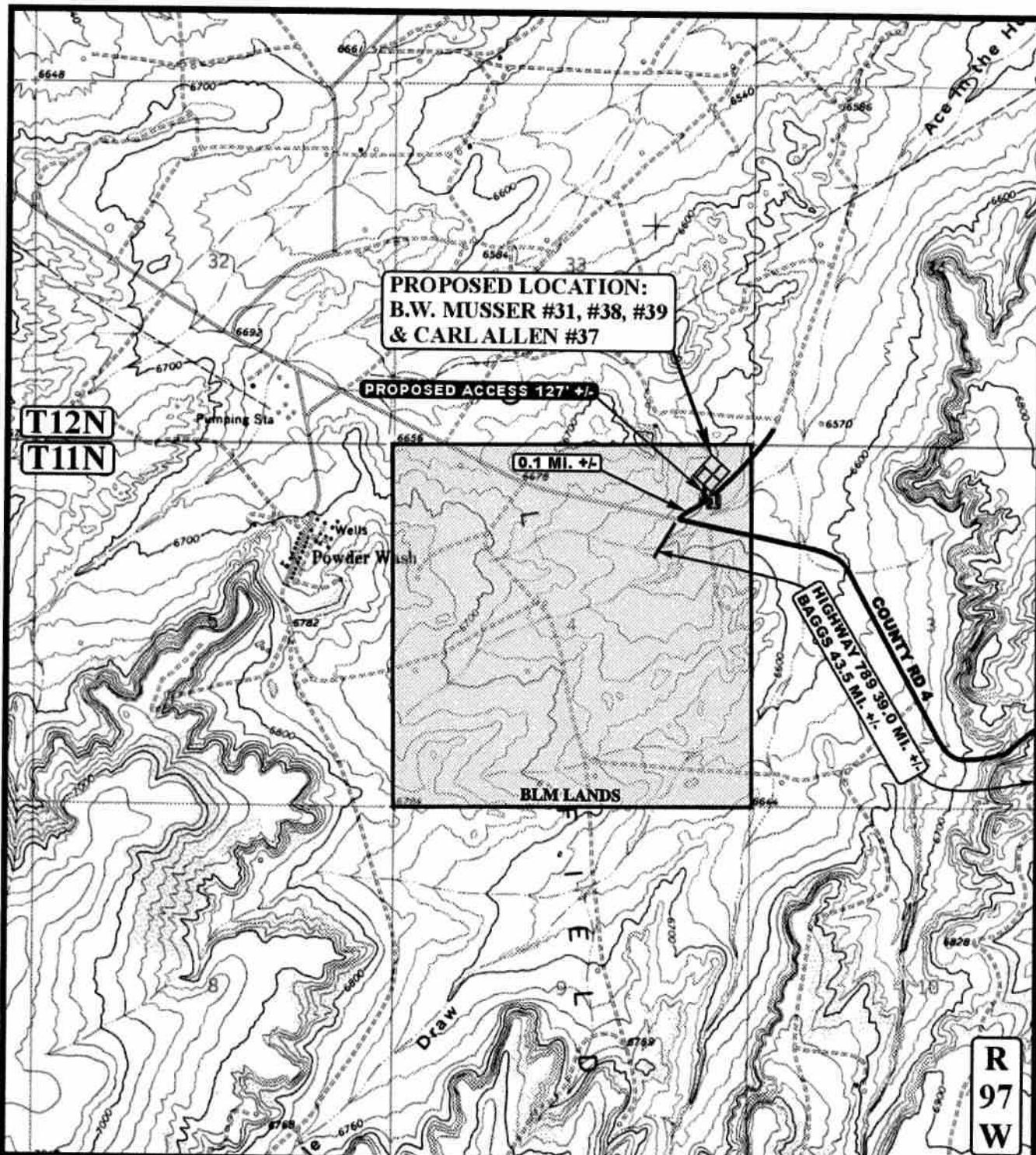
SCALE: 1" = 50'
DATE: 08-06-10
DRAWN BY: K.G.
REVISED: 04-20-11 S.L.



APPROXIMATE ACREAGES
UN-RECLAIMED = ±1.991 ACRES

 RECLAIMED AREA

UINTAH ENGINEERING & LAND SURVEYING
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LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- 18" CMP REQUIRED



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
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WEXPRO COMPANY

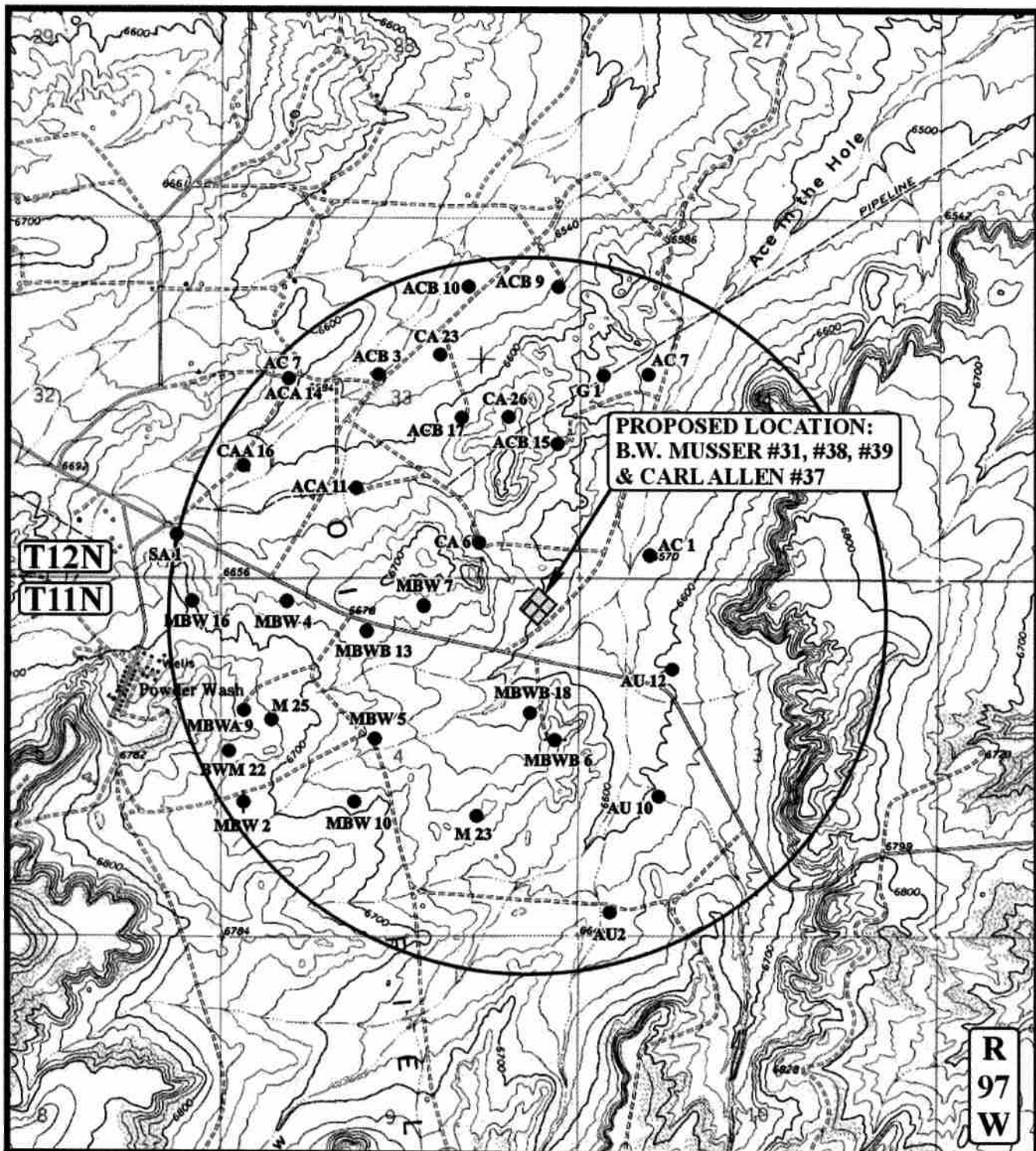
B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5

TOPOGRAPHIC
MAP

07 **23** **08**
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 03-09-11

B
TOPO



LEGEND:

- | | |
|-------------------|-------------------------|
| ⊘ DISPOSAL WELLS | ⊘ WATER WELLS |
| ● PRODUCING WELLS | ◆ ABANDONED WELLS |
| ⬮ SHUT IN WELLS | ⬮ TEMPORARILY ABANDONED |



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WEXPRO COMPANY

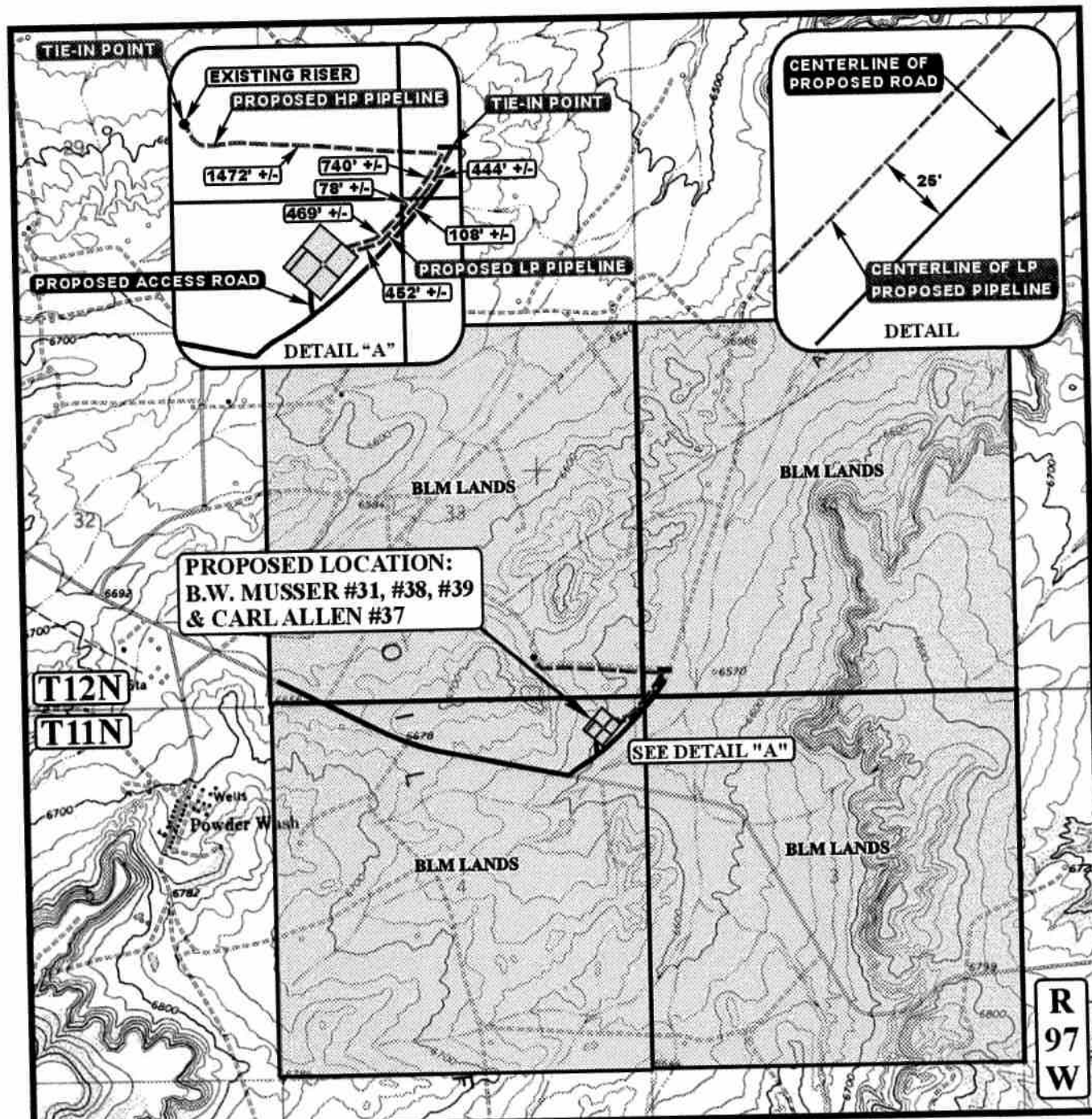
B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5

TOPOGRAPHIC
MAP

07 23 08
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 03-09-11





APPROXIMATE TOTAL HP PIPELINE DISTANCE = 2,759' +/-

APPROXIMATE TOTAL LP PIPELINE DISTANCE = 1,004' +/-

LEGEND:

PROPOSED ACCESS ROAD
 EXISTING PIPELINE
 PROPOSED PIPELINE

QEP FIELD SERVICES COMPANY

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5



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TOPOGRAPHIC MAP

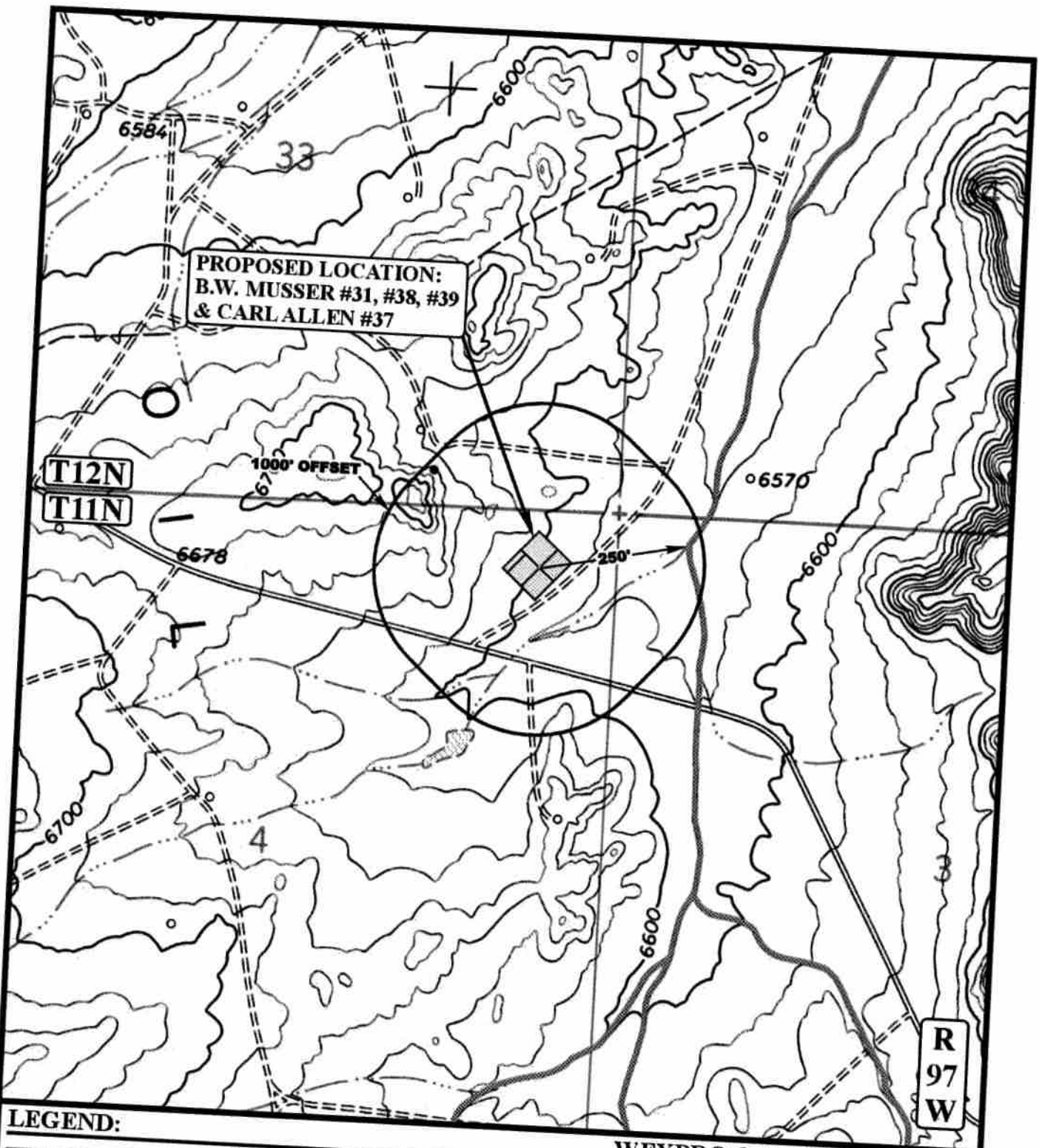
SCALE: 1" = 2000'

DRAWN BY: J.L.

08 05 08
 MONTH DAY YEAR

REVISD: 03-09-11

D TOPO



LEGEND:

- EXISTING DRAINAGE
- 1000' OFFSET BOUNDARY



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WEXPRO COMPANY

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5

HYDROLOGY MAP

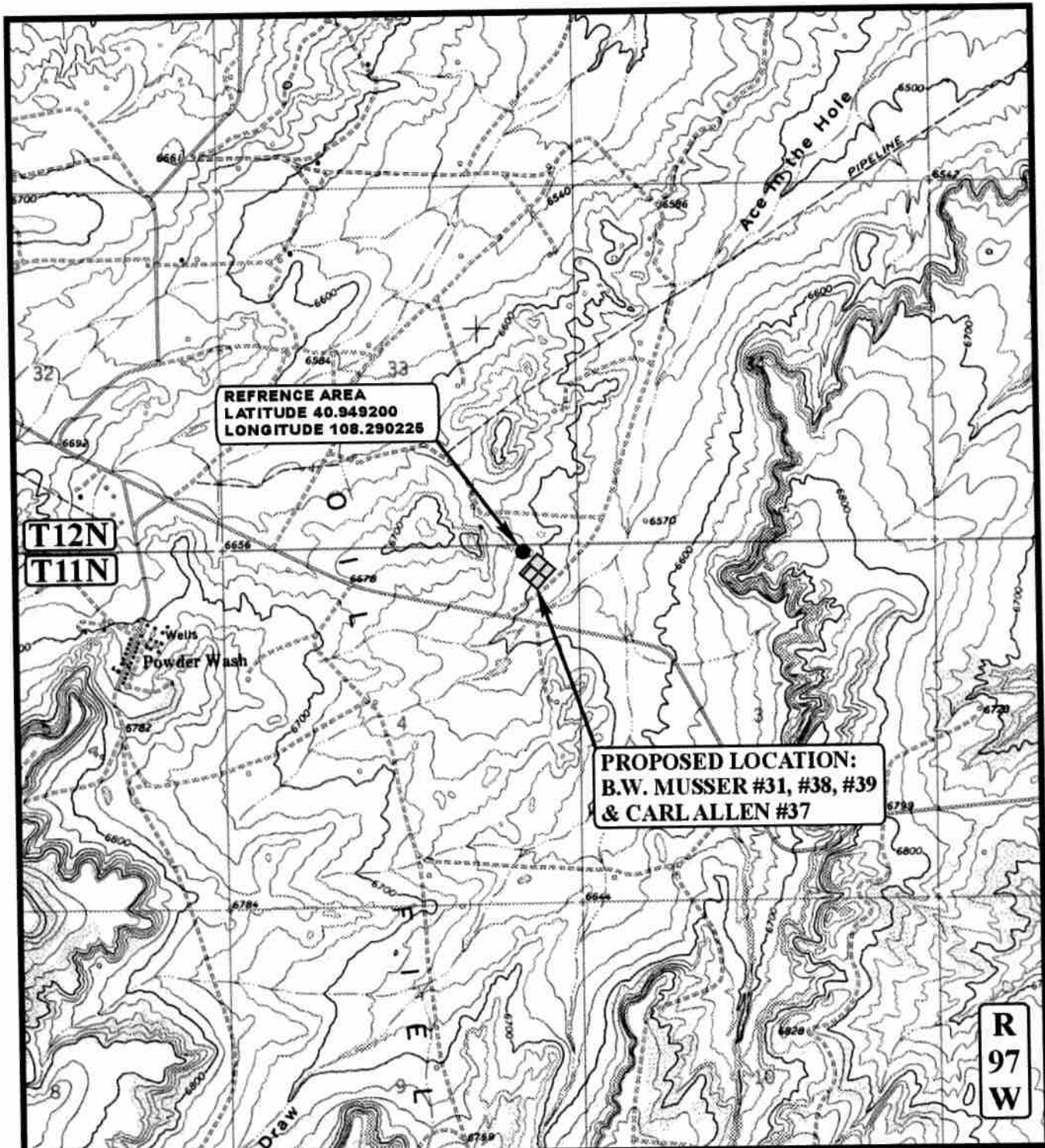
12	10	09
MONTH	DAY	YEAR

SCALE: 1" = 1000'

DRAWN BY: J.H.

REVISED: 03-09-11





LEGEND:

WEXPRO COMPANY

**B.W. MUSSER #31, #38, #39 & CARL ALLEN #37
SECTION 4, T11N, R97W, 6th P.M.
LOT 5**



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**REFERENCE AREA
MAP**

SCALE: 1" = 2000'

DRAWN BY: J.H.

12 10 09
MONTH DAY YEAR

REV: 03-09-11 J.J.

**REF
TOPO**